

Paducah, Kentucky Ozone Maintenance Plan

Effective Redesignation Date: 4/10/95 (60 FR 7124, 2/7/95; 66 FR 43488, 8/20/01)

Background of the Plan: Under section 107(d)(1) of the 1990 Clean Air Act Amendments, in conjunction with the Governor of Kentucky, EPA designated the Paducah area as nonattainment because the area violated the ozone standard during the period from 1987 through 1989 (See 56 FR 56694 (Nov. 6, 1991) and 57 FR 56762 (Nov. 30, 1992), codified at 40 CFR 81.318). On November 13, 1992, the Commonwealth of Kentucky through the Natural Resources and Environmental Protection Cabinet (Cabinet), submitted a maintenance plan and a request to redesignate the Paducah area from nonattainment to attainment for ozone. The marginal nonattainment areas include the following counties: Marshall and a portion of Livingston. EPA approved an update for the Paducah maintenance plan on August 20, 2001 to correct/revise the original motor vehicle emissions budgets (MVEBs) approved by EPA. EPA's approval became effective on October 19, 2001. The revised MVEBs were developed with MOBILE5b and are being used for transportation conformity purposes in the Paducah area.

Summary of the Plan: This State Implementation Plan (SIP) relies on an attainment level of emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx) to maintain the ozone standard through a combination of control measures. These measures include both stationary and mobile source controls. The state agreed to periodically update the emissions inventory to ensure maintenance of the standard and to implement certain contingency measures if the emissions level is exceeded or the standard is violated. The Paducah marginal nonattainment area is expected to achieve a 10.95 percent reduction in VOCs and a 3.05 percent reduction in NOx by year 2004.

Control Measures: A variety of control measures will be utilized including the following:

- Emissions Inventory
- Reasonably Available Control Technology (RACT)
- Emissions Statements
- New Source Review (NSR)

This area is subject to the Federal Reid Vapor Pressure requirements. For a listing of the exact requirements please refer to <http://www.epa.gov/otaq/volatility.htm>

Motor Vehicle Emissions Budgets: The applicable MVEB for Paducah for VOCs for 2002 is 3.13 tons/day and for 2004 is 3.17 tons/day. The applicable MVEB for Paducah for NOx for 2002 is 3.68 tons/day and 2004 is 3.71 tons/day.

Contingency Measures: The plan contains a contingency to implement RACT on existing major sources in the area where the violation occurred within ninety (90) days. RACT was not required for this nonattainment area because it was designated as a marginal nonattainment area pursuant to the CAA. However, Kentucky chose to apply RACT on all major sources which commenced on or after the effective date of a particular RACT rule.

Emission Reductions: On November 13, 1992, the Commonwealth of Kentucky submitted comprehensive inventories of VOC, NOx, and CO emissions for the Paducah marginal nonattainment area. The inventories included biogenic, area, stationary, and mobile sources using 1990 as the base year for calculations to demonstrate maintenance. The area wide VOC emissions inventory for baseline year 1990 was 102.77 tons/day with a total reduction of 10.95 percent by 2004. The area wide NOx emissions inventory for baseline year 1990 was 90.54 tons/day with a total reduction of 3.05 percent by 2004. The Paducah marginal nonattainment was redesignated attainment on February 7, 1995 and will achieve further reductions through the year 2002.

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Federal Register: 02/07/1995 [60 FR Page 7124](#) Paducah, Kentucky Ozone Maintenance Plan
08/20/2001 [66 FR Page 43488](#) Approval of Revisions to 1-Hour Ozone Maintenance Plan